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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|---|-----------------|----------------------|-------------------------|-------------------------|--|--|
| 10/751,081 | 01/02/2004 | Joseph J. Schottler | P06702US0 | P06702US0 1318 | | |
| 34082 7 | 7590 04/14/2005 | | EXAMINER | | | |
| ZARLEY LAW FIRM P.L.C. CAPITAL SQUARE 400 LOCUST, SUITE 200 | | | LAM, TUAN THIEU | | | |
| | | | ART UNIT | PAPER NUMBER | | |
| DES MOINES, IA 50309-2350 | | | 2816 | | | |
| | | | DATE MAILED: 04/14/2005 | DATE MAILED: 04/14/2005 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No | 0. | Applicant(s) | | | | |
|--|--|--|--|--|----------------------|--|--|--|
| Office Action Summary | | | - | | | | | |
| | | 10/751,081 | | SCHOTTLER, JO | SEPH J. | | | |
| | , | Examiner | ì | Art Unit | | | | |
| | The MAILING DATE of this communication app | Tuan T. Lam | er sheet with the co | 2816 prrespondence ac | dress | | | |
| Period for | or Reply | | | | , a, coc == | | | |
| THE - External control | MORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1: r sIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply to period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ted patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, ho y within the statutory n will apply and will expir , cause the application | wever, may a reply be time ninimum of thirty (30) days re SIX (6) MONTHS from the to become ABANDONED | ely filed will be considered timel he mailing date of this c | ly. ommunication. | | | |
| Status | | | | | | | | |
| 1)🛛 | Responsive to communication(s) filed on <u>08 A</u> | pril 2005. | | | | | | |
| _ | a)⊠ This action is FINAL. 2b)□ This action is non-final. | | | | | | | |
| 3)□ | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposit | ion of Claims | | | | | | | |
| 5)⊠ 6)⊠ | | | | | | | | |
| Applicat | ion Papers | | | | | | | |
| 10)🏻 | The specification is objected to by the Examine The drawing(s) filed on <u>02 January 2004</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex | : a)⊠ accepted drawing(s) be hel ion is required if t | d in abeyance. See the drawing(s) is obje | 37 CFR 1.85(a). ected to. See 37 Cl | FR 1.121(d). | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | | | |
| 12) 🗀 a) | Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list | s have been red s have been red nity documents I u (PCT Rule 17. | ceived. ceived in Applicationave been received 2(a)). | n No d in this National | Stage | | | |
| Attachmen | t(s) | | | | | | | |
| 2) 🔲 Notic 3) 🔲 Infori | te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date | 5) [| Interview Summary (I Paper No(s)/Mail Dat Notice of Informal Pa Other: | e | D-152) | | | |

Application/Control Number: 10/751,081

Art Unit: 2816

DETAILED ACTION

This is a response to the amendment filed 4/8/2005. Claims 1-12 are pending and are under examination.

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 8-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 8, the recitation of "a third diode" inline 5 is indefinite because it is unclear as to if this third diode is the same as or is an additional diode to the diode recited in claim 6. clarification and correction is required.

Claims 9-11 are indefinite because of the technical deficiencies of claim 8.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bolz et al. (US 204/0130379) in view of <u>Electronic Circuits Discrete and Integrated</u> by Schilling et al.

Figure 3 of Bolz et al. shows a circuit for driving the gate of NFET (42), said circuit having a source voltage passageway (361, 362, 51) adapted to receive the input signal and

Art Unit: 2816

electrically connected to the NFET, a local positive voltage passageway (output of the charge pump 373, 380) electrically connected to the NFET, a power source (+48V) electrically connected to the NFET providing a positive source to the NFET.

Bolz et al. reference does not shows a Zener diode coupled in between the source voltage passageway and the local positive voltage passageway as called for in claim 6. Schilling et al. teaches the usage of a Zener diode to a reference voltage device for providing a constant voltage against power surge. Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to include a Zener diode in between the source voltage passageway and the local positive voltage passageway to provide a constant local positive voltage thus preventing an erroneous operation.

Regarding claim 7, figure 3 of Bolz et al. shows first transistor (51) having a threshold voltage adapted to receive input signal (20), a second transistor (353) electrically connected to the first transistor such that when the threshold voltage of the first transistor is not supplied it will deactivates, said second transistor being electrically connected to the base (gate) of the NFET.

Allowable Subject Matter

- 5. Claims 1-5 and 12 are presently allowed.
- 6 Claims 8-11 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Art Unit: 2816

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Lam whose telephone number is 571-272-1744. The examiner can normally be reached on Monday to Friday (7:30 am to 6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY P. CALLAHAN can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2816

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan T. Lam

Primary Examiner

Art Unit 2816

4/13/2005